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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office

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Date of mailing (day/month/year) in its capacity as elected Office 21 December 1999 (21.12.99)

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Applicant's or agent's file reference 2996154

Priority date (day/month/year) 27 March 1998 (27.03.98)

Applicant

OHLANDER, Roland et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	27 October 1999 (27.10.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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(72) Inventors; and

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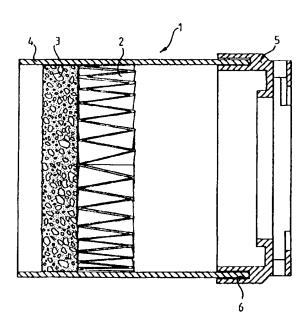
(74) Agent: AWAPATENT AB; P.O. Box 11394, S-404 28 Göteborg (SE).

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(54) Title: EXHAUST GAS FILTER TEMPORARILY ARRANGED AT A VEHICLE EXHAUST PIPE



(57) Abstract

The invention relates to a device for cleaning exhaust gases from vehicles, especially cars, which is intended to be temporarily arranged adjacent to the exhaust pipe of the vehicles, comprising a filter unit (1) with a first part (2) for separation of particles and a second part (3) for separation of gaseous pollutants, such as hydrocarbons. The filter unit also comprises a filter housing (4), in which the first (2) and second (3) parts are arranged. The filter unit (1) is made of a material which is completely destructible by means of incineration, while the second part (3) comprises a body, containing immobilised activated carbon evenly distributed in the body.

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EXHAUST GAS FILTER TEMPORARILY ARRANGED AT A VEHICLE EXHAUST PIPE

Field of the Invention

The present invention relates to a device for cleaning exhaust gases from vehicles, especially cars, which is intended to be temporarily arranged adjacent to the exhaust pipe of the vehicle, comprising a filter unit with a first part for separation of particles and a second part for separation of gaseous pollutants, such as hydrocarbons, the filter unit also comprising a filter housing, in which the first and second parts are arranged. This exhaust gas cleaning device is preferably intended to be used as a temporary filter for separating particulate and gaseous pollutants from vehicles when they are transported from vehicle manufacturing plants or when they are driven indoors, for example in car showrooms and workshops.

Background of the Invention

Presently, in order to avoid exhaust gases in, for example, a car showroom use is made of exhaust gas cleaning devices which are temporarily arranged on the exhaust pipe of the cars. These devices usually have a particle filter for separating particulate pollutants as well as a carbon filter for removing gaseous pollutants. Since new engines contain a large amount of hydrocarbons, the carbon filters of the exhaust gas cleaning devices have a short life and, consequently, the devices can only be reused a small number of times.

One problem associated with this technology is thus that a large number of polluted exhaust gas cleaning devices are produced, which because of their carcinogenic contents of polycyclic aromatic hydrocarbons are designated as hazardous waste and which, accordingly, cannot be deposited at an ordinary municipal refuse tip.

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Another problem associated with the carbon filters of prior art exhaust gas cleaning devices is that the degree of separation of the gaseous pollutants is low.

Summary of the Invention

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The object of the present invention is to solve the problems described above by simplifying the disposal of the exhaust gas cleaning devices after use as well as increasing the degree of separation of the gaseous pollutants.

10 This object is achieved according to the invention by a device of the type described in the introductory paragraph, characterised in that the filter unit is made of a material which is completely destructible by means of incineration and that the second part comprises a body, containing immobilised activated carbon evenly distributed in the body.

Since the filter unit of the device is composed of a material which is completely destructible by means of incineration, the entire filter unit can be incinerated in a conventional refuse incinerator, whereby the material including the harmful hydrocarbons is decomposed into innocuous, gaseous residual products.

That fact that said body contains evenly distributed activated carbon results in better utilisation of the activated carbon. Moreover, since the activated carbon is immobilised, high and safe gas filtering is achieved with no risk of gas leakage due to settlements in the carbon body. In other words, compaction of carbon particles is prevented during operation. Compaction of the carbon particles is undesirable since it would result in the formation in the carbon body of areas without carbon particles and consequently without the ability to separate gaseous pollutants, i.e. the gaseous pollutants would not be removed from the part of the exhaust gases which would flow through these areas. The total degree of separation would thus be relatively low.

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The filter unit of the device preferably comprises a filter housing, in which the first and second parts can be arranged.

The filter housing is made of a material which is completely destructible by means of incineration. The filter housing can be made of cardboard or of a combustible polymer, such as a recovered polymer or polypropylene. The filter housing is suitably made in the shape of a tube or a sleeve.

Said body preferably comprises an activated carbon combined with a carrier material and the activated carbon is suitably cross-linked with a polymer.

Said first part preferably comprises a microfilter, such as a HEPA filter.

The first and second parts are suitably attached to the filter housing by means of gluing.

The device preferably comprises a fastening member for attaching the filter unit to the exhaust gas system of the car by means of an adapter.

The fastening member can be made of a material which is completely destructible by means of incineration, such as a combustible polymer. The polymer may consist of a recovered polymer or polypropylene.

Brief Description of the Drawings

25 The invention will be described in more detail below with reference to the accompanying schematic drawing, which by way of example shows a part section of a presently preferred embodiment of the device according to the invention.

Description of a Preferred Embodiment

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The device according to the preferred embodiment comprises a filter unit 1 with a first part 2 for separation of particles present in exhaust gases from a vehicle, such as a car, (not shown) as well as a second part 3 for separation of gaseous pollutants present in these exhaust gases, such as polycyclic aromatic hydrocarbons. The first part comprises a microfilter 2, such

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as a HEPA filter, in the form of a pleated filter sheet made of a fibre material, such as polyester. The second part, however, comprises a carbon body 3 containing immobilised activated carbon evenly distributed in the body. The activated carbon is cross-linked with a polymer in order to form of a homogeneous, self-supporting round of activated carbon.

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Furthermore, the filter unit comprises a filter housing 4 in the form of a cardboard tube, in which the microfilter 2 and the carbon body 3 are arranged. More specifically, the microfilter and the carbon body are bonded to the inside of the cardboard tube by means of hot melt adhesive in such a way that they abut against each other and, moreover, from the point of view of the flow direction of the exhaust gases, indicated by the flow arrow F in the drawing, the carbon body is located downstream of the microfilter. On the side which does not abut against the microfilter, the carbon body is located a short distance upstream of the downstream end of the cardboard tube. Furthermore, the inside of the cardboard tube is coated with a layer of, for example, silicate paint in order to enable the hot exhaust gases to flow through the cardboard tube without destroying it while at the same time ensuring that the tube is destructible by means of conventional waste incineration.

The device also comprises a fastening member 5, which is provided with a surrounding track 6 at its downstream end, in which track the downstream end of the cardboard tube 4 is attached by means of a hot melt adhesive. At its upstream end, the fastening member is attached to the exhaust pipe of a vehicle by the intermediary of a conventional adapter (not shown), the fastening member being attached to the adapter by means of, for example, a bayonet catch. The fastening member is made of a material which is completely destructible by means of incineration, such as polypropylene or a recovered poly-

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mer consisting of a mixture of conventional recovered plastics, such as HDPE, LDPE, PP, etc.

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In use, the exhaust gas cleaning device is thus arranged adjacent to the exhaust pipe of the vehicle and exhaust gases flow through it when the vehicle is being driven in, for example, a car showroom. When the exhaust gases first pass through the microfilter 2 of the filter unit 1, their particulate pollutants, such as soot particles, are separated first. Subsequently, their gaseous pollutants, such as polycyclic aromatic hydrocarbons, are separated from the exhaust gases in the carbon body 3 of the filter unit 1. Since the activated carbon particles of the carbon body are evenly distributed in the entire body and since they are also locked in position, compaction of the same is avoided, whereby it is ensured that the entire exhaust gas flow must pass through the adsorbing carbon particles. In this way, high separation of gaseous pollutants is achieved.

Subsequently, when the vehicle is to be delivered to
the buyer in question, the exhaust gas cleaning device is
removed together with the adapter from the exhaust pipe
of the vehicle and is reused on another vehicle. Since
there is a large amount of hydrocarbons in new engines
the exhaust gas cleaning device can only be reused a few
times if it is mostly used in connection with new vehicles. When the exhaust gas cleaning device is considered
worn out it is removed from the adapter and destroyed by
means of incineration, which is possible since the entire
exhaust gas cleaning device is made of combustible mate30 rials.

It will be appreciated that a number of modifications of the embodiment described above are possible within the scope of the invention as defined by the appended claims. For example, the microfilter 2 and the carbon body 3 can be mounted inside the filter housing 4 by means of a conventional rubber seal. Furthermore, the filter housing 4 can be in the shape of a sleeve, which

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can be made of a combustible polymer, such as polypropylene or a recovered polymer. Moreover, the filter housing and the fastening member can be made in one piece and, in that case, are suitably made of a polymer. It is also possible to design the exhaust gas cleaning device according to the present invention in such a way that only the microfilter 2 and the carbon body 3 are replaced when the degree of separation of particles and/or gaseous pollutants is below predetermined limit values, i.e. the filter housing and the fastening member are provided with 10 a new microfilter and a new carbon filter. In the latter variant, the filter unit which is completely destructible by means of incineration only comprises the microfilter and the carbon body. It is also possible to provide the exhaust gas cleaning device with a transportation safety 15 device in the form of a plastic cover, which is placed inside the filter housing 4 downstream of the carbon body 3 prior to using the exhaust gas cleaning device.

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CLAIMS

- 1. A device for cleaning exhaust gases from vehicles, especially cars, adapted to be temporarily arranged adjacent to the exhaust pipe of the vehicles and comprising a filter unit (1) with a first part (2) for separation of particulate pollutants and a second part (3)
 for separation of gaseous pollutants, such as hydrocarbons, the filter unit also comprising a filter housing
 (4), in which the first (2) and second (3) parts are
 arranged, c h a r a c t e r i s e d in that the filter
 unit (1) is made of a material which is completely
 destructible by means of incineration, and the second
 part (3) comprises a body containing immobilised activated carbon evenly distributed in the body.
 - 2. A device according to claim 1, character is ed in that the filter housing (4) is made of a material which is completely destructible by means of incineration.
 - 3. A device according to claim 2, characterised in that the filter housing (4) is made of board.
- 4. A device according to claim 2, charac-25 terised in that the filter housing (4) is made of a combustible polymer.
 - 5. A device according to claim 4, characterised in that the filter housing (4) is made of a recovered polymer or polypropylene.
- 6. A device according to any one of claims 2-5, characterised in that the filter housing is made in the shape of a tube (4) or sleeve.
- 7. A device according to any one of the preceding claims, characterised in that said body (3)
 35 comprises activated carbon combined with a carrier material.

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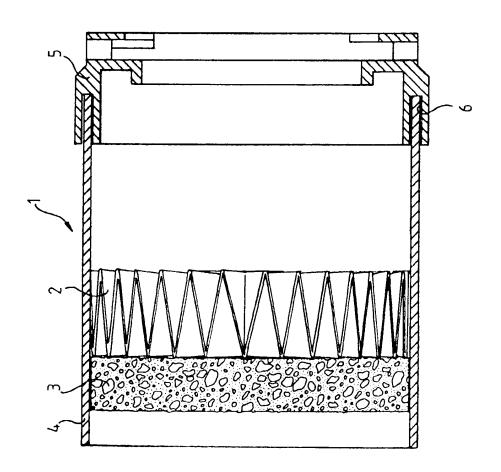
8. A device according to claim 7, character is ed in that the activated carbon is crosslinked with a polymer.

- 9. A device according to any one of the preceding claims, characterised in that said first part comprises a microfilter (2), such as a HEPA filter.
 - 10. A device according to any one of claims 2-9, c h a r a c t e r i s e d in that the first (2) and the second (3) parts are attached to the filter housing (4) by means of gluing.

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- 11. A device according to any one of the preceding claims, characterised by a fastening member (5) for attaching the filter unit (1) to the exhaust gas system of the vehicle in question by means of an adapter.
- 12. A device according to claim 11, character is ed in that the fastening member (5) is made of a material which is completely destructible by means of incineration.
- 13. A device according to claim 12, charac-20 terised in that the fastening member (5) is made of a combustible polymer.
 - 14. A device according to claim 13, characterised in that the polymer consists of a recovered polymer.
- 25 15. A device according to claim 13, characterised in that the polymer consists of polypropylene.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notif	ication of Transmittal of International
2996154		Preliminary	Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day)	month year)	Priority date (day/month year)
PCT/SE99/00500	26.03.1999		27.03.1998
International Patent Classification (IPC) o	r national classification and IPO	C ₇	
F01N 3/24, B01D 27/08			
Applicant			
SCANDFILTER AB et al			
This international preliminary exa Authority and is transmitted to th	e applicant according to Article	e 36.	
2. This REPORT consists of a total	of 3 sheets, inc	luding this cover	sheet.
been amended and are the	anied by ANNEXES, i.e., sheet basis for this report and/or sheet in 607 of the Administrative Ins	ets containing rec	ion, claims and/or drawings which have ctifications made before this Authority the PCT).
These annexes consist of a total of	of sheets.		
3. This report contains indications re	elating to the following items:		
1 X Basis of the report			
II Priority			
III Non-establishment o	of opinion with regard to novel	ty, inventive step	and industrial applicability
IV Lack of unity of inv			
V X Reasoned statement and explanations su	under Article 35(2) with regar pporting such statement	d to novelty, inv	entive step or industrial applicability; citations
VI Certain documents of	cited		
VII Certain defects in th	e international application		
VIII Certain observation	s on the international application	on	
			of this raport
Date of submission of the demand	Da	ate of completion	ror this report
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ĺ	tional application No.
	PCT/SE99/00500

I. Basis of the report		
This report has been drawn o under Article 14 are referred to it.	on the basis of (Replacement sho in this report as "originally filed	eets which have been furnished to the receiving Office in response to an invitation and are not annexed to the report since they do not contain amendments.):
the internationa	application as originally file	ed.
the description.	pages	, as originally filed.
	pages	filed with the demand.
	pages	filed with the letter of ·
	pages	filed with the letter of
the claims.	Nos.	. as originally filed.
		_ , as amended under Article 19.
		_ , filed with the demand.
	Nos	, filed with the letter of
	Nos	, filed with the letter of
the drawings.	sheets/fig	, as originally filed.
1		, filed with the demand
		, filed with the letter of
the description the claims. the drawings. This report has been beyond the disclosure. 4. Additional observations, if	Nos. sheets/fig n established as if (some of) to re as filed, as indicated in the	he amendments had not been made, since they have been considered to go e supplemental Box (Rule 70.2(c)).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ational application No.
PCT/SE99/00500

V.	Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims Claims	1-15	YES NO
Inventive step (IS)	Claims Claims	1-15	YES NO
Industrial applicability ((IA) Claims	1-15	YES NO

2. Citations and explanations

The invention relates to a filtering device for cleaning exhaust gases from vehicles. The filtering device, which consists of a particle filter and a part for separation of gaseous pollutants contained in a housing, is intended to be temporarily arranged adjacent to the exhaust pipe. The filtering device is made of a material, which is completely destructible by means of incineration.

Most relevant document cited in the International Search Report:

D1: W08603802

D1 describes a filtering device intended to be attached temporarily to an exhaust pipe. The device is intended to be simple to mount and dismount on the exhaust pipe and to be manufactured so cheap it can be used as a disposable article. The device consists of a glass fibre section to filter particles and a section of active carbon to filter gaseous pollutants.

The invention according to claim 1 differs from the device described in D1 in that the filtering device is made of a material, which is completely destructible by means of incineration. There is nowhere indicated in D1 that the device should be construed of such a material and the problem of taking care of the device after it has served its time is not discussed. Hence, there is nothing described in D1 that would guide a person skilled in the art to end up at the claimed invention.

Hence, the invention according to claim 1 and thereupon depending claims 2-15 is novel and regarded to involve an inventive step.

INTERNATIONAL SEARCH REPORT

International application No.

		PCT/SE 99	/00500
A. CL	ASSIFICATION OF SUBJECT MATTER		
IPC6:	: F01N 3/24, B01D 27/08 ng to International Patent Classification (IPC) or to both		
	ng to International Patent Classification (IPC) or to both LDS SEARCHED	n national classification and IPC	
	m documentation searched (classification system followed	hy classification symbols	
		oy chashication symbols)	
	: F01N, B01D		
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Electronic	ic data base consulted during the international search (na	me of data base and, where practicable, sea	arch terms used)
WPI			
	CUMENTS CONSIDERED TO BE RELEVANT		
Category	y* Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No
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	(03.07.86), claim 3, abst	ract	
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	(02.04.80), abstract	p	1
A	ED 2580020 B (DOMANOS MADOE)	10.0-4-k 100C	
n	FR 2580030 B (ROMANOS WARDE), (10.10.86), claims 1-4	10 Uctober 1986	1
			-
Furt	ther documents are listed in the continuation of Bo	ox C. X See patent family ann	
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m PCI/I	SA 210 (second sheet) (July 1992)		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

03/05/99

PCT/SE 99/00500

	atent document d in search repo	rt	Publication date		Patent family member(s)		Publication date
WO	8603802	A1	03/07/86	AT	41475	Ţ	15/04/89
				AU	584375		25/06/89
				AU	5142985	A	26/06/86
				BR	8407379	A	03/11/87
				8R	85 049 94	A	21/01/86
				CA	1270771	A	26/06/90
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				EP	0236295	A,B	16/09/87
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B	2030221	A	02/04/80	DE	2930762	Α	14/02/80
				FR		A	29/02/80
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				SE	7906560	A	05/02/80
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